



technical data

FTK/FTX(D)-JA/H/J



**Wall Mounted
Inverter Controlled Unit**

air conditioning systems

Split Sky Air

Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice

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FTK/FTX(D)-JA/H/J

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For capacity tables, please refer to part II: outdoor units

Note: R-22 cooling only models, which are produced after 01/07/2002, cannot be sold inside countries that follow the European Regulation n°2037/2000 EE of 29/09/2000.

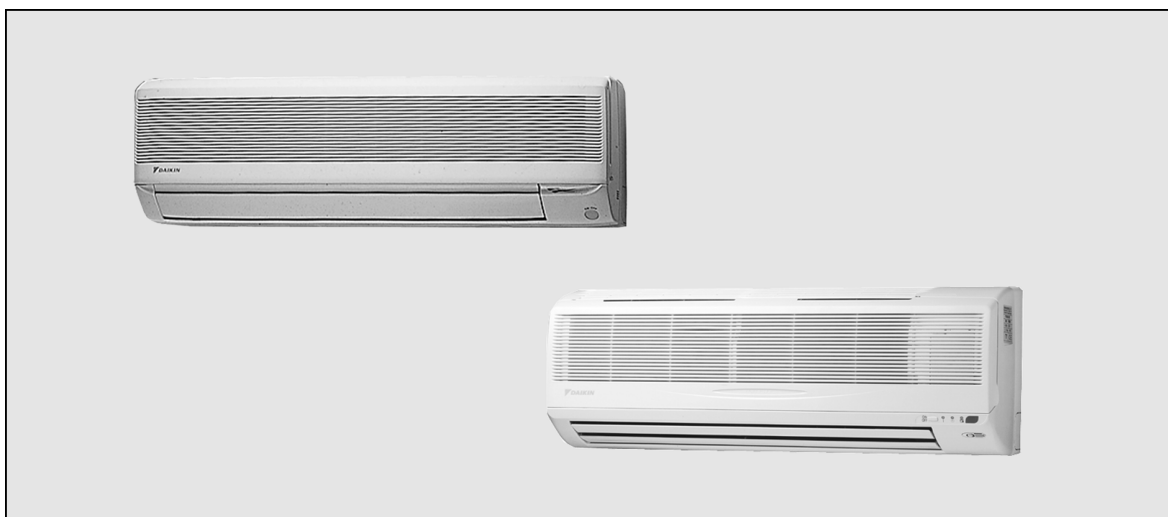
1 Features



1

- Lightweight and compact
- Extremely quiet in operation both indoors and outdoors
- A silent button on the remote control lowers the operation sound of the outdoor unit (RXD-J) by 3dB(A)
- The movement sensor saves power consumption in unoccupied rooms (FTK/FTX-JA)
- A comfortable sleeping mode pledges you a good night's rest (FTK/FTX-JA)
- The home leave operation saves energy during absence. (FTXD-J)
- Automatic air flow director ensures uniform air flow and temperature distribution:
 - The indoor units are equipped with a double horizontal flap for air discharge
 - The indoor units FTK/FTX50-60 are equipped with an extra automatic vertical air flow director
- Powerful mode can be selected for rapid cooling or heating
- Air purification filter
 - deodorises the air
 - helps to prevent bacterial and viral propagation
- Washable front panel
- Up to 4 indoor units can be connected to 1 Multi outdoor unit. All indoor units are individually controllable with remote control and do not need to be installed in the same room. They operate simultaneously within the same cooling or heating mode.
- The remote control has a 24 hour timer
- The indoor model also has a start/stop button mounted on the front panel
- Up to 5 indoor units can be operated from a single centralised control
- Purpose-designed holder provided for your remote control (FTK/FTX)

- **Inverter control**
The use of an integrated inverter control ensures maximum comfort and efficiency.
- **Short start-up cycle**
Inverter control enables the required room temperature to be achieved quicker than with non inverter units, in fact, start-up time is reduced by one third.
- **30% less power consumption**
The inverter controller detects changes in room or outdoor conditions and adjusts the indoor temperature to compensate within seconds. Rapid response reduces power consumption to 30% lower than that of non-inverter systems.



Standard



FTX(D)



5 steps



FTXD



FTK/FTX



Optional



FTK



FTK/X-JA



FTXD

2 Specifications



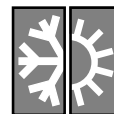
NOMINAL CAPACITY and NOMINAL INPUT						
For indoor units only:						
INDOOR UNITS				FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB
NOMINAL INPUT	Cooling		kW	0.04	0.04	0.05
						0.06

For combination indoor units + outdoor units:						
INDOOR UNITS				FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB
OUTDOOR UNITS				RK25JV1NB	RK35JV1NB	-
NOMINAL CAPACITY (2-3)	Cooling (1)	min.~nom.~max.	kW	1.30~2.50~3.00	1.40~3.54~3.80	For capacities and power input in multi model application, see chapter MK-H
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	0.43~0.945~1.250	0.47~1.345~1.72	

TECHNICAL SPECIFICATIONS							
INDOOR UNITS				FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
DIMENSIONS	Unit	H	mm	273	273	298	298
		W	mm	784	784	1,050	1,050
		D	mm	185	185	190	190
WEIGHT	Unit		kg	7.5	7.5	12	12
COLOUR	Unit			Almond white			
SOUND LEVEL	Sound pressure (4)	high	dBA	38	39	44	46
		medium	dBA	32	33	39	42
		low	dBA	26	27	35	38
	Sound power (5)		dBA	54	55	60	62
FAN	Air flow rate	high	m ³ /min	7.1	7.4	12.9	14
		medium	m ³ /min	5.9	6	11.2	12.1
		low	m ³ /min	4.6	4.7	9.4	10.3
	Speed	steps		5 steps and auto			
		high	rpm	1,260	1,300	1,240	1,320
		medium	rpm	1,075	1,100	1,120	1,180
		low	rpm	890	900	1,000	1,040
	Type			Cross flow fan			
	Qty x model			1 x 18F-22	1 x 18F-22	1 x D40A-05 (DC-Motor)	1 x D40A-05 (DC-Motor)
	Qty x motor output		W	1 x 18	1 x 18	1 x 35	1 x 35
HEAT EXCHANGER	Type			Ø 7 Hi-XA tube			
	Rows x stages x fin pitch		mm	2 x 12 x 1.4	2 x 12 x 1.4	2 x 14 x 1.2	2 x 14 x 1.2
AIR FILTER				Removable/washable/mildew proof			
AIR DIRECTION CONTROL				Right, left, horizontal and downward			
TEMPERATURE CONTROL				Microcomputer control			
PIPING CONNECTIONS	liquid	mm		Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4
	gas	mm		Ø 9.5	Ø 12.7	Ø 12.7	Ø 15.9
	drain	mm		Ø 18.0	Ø 18.0	Ø 18.0	Ø 18.0
INSULATION MATERIAL	Heat insulation tape			Both liquid and gas pipes			

For outdoor units	Pair application	See chapter RK-J
	Multi model application	See chapter MK-H

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3D027500B
3D013612B
3D013616B



2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT							
For indoor units only:							
INDOOR UNITS			FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
NOMINAL INPUT	Cooling	kW	0.04	0.04	0.04	0.045	0.05
	Heating	kW	0.04	0.04	0.038	0.045	0.05

For combination indoor units + outdoor units:									
INDOOR UNITS				FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B	
OUTDOOR UNITS				RX25JV1NB	RX35JV1NB	RXD50JV1B	RXD60JV1B	RXD71JV1B	
NOMINAL CAPACITY (3-4)	Cooling (1)	min.~nom.~max.	kW	1.30~2.50~3.00	1.40~3.43~3.80	0.90~5.20~5.80	0.90~6.20~7.00	0.90~7.10~8.00	
	Heating (2)	min.~nom.~max.	kW	1.30~3.40~4.00	1.40~4.10~5.10	0.90~6.50~8.00	0.90~7.20~8.50	0.90~8.50~9.50	
NOMINAL INPUT	Cooling	min.~nom.~max.	kW	0.35~0.98~1.35	0.50~1.43~1.72	0.45~1.73~2.30	0.45~2.21~2.90	0.45~2.63~3.45	
	Heating	min.~nom.~max.	kW	0.35~1.130~1.350	0.405~1.375~1.90	0.45~1.91~2.80	0.45~2.12~3.30	0.45~2.74~3.80	

TECHNICAL SPECIFICATIONS								
INDOOR UNITS				FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
DIMENSIONS	Unit	H	mm	273	273	298	298	298
		W	mm	784	784	1,050	1,050	1,050
		D	mm	185	185	190	190	190
			kg	7.5	7.5	12	12	12
WEIGHT	Unit							
COLOUR	Unit							
SOUND LEVEL	Sound pressure (cooling/heating) (5)	high	dB(A)	38/38	39/39	44/42	45/44	46/46
		medium	dB(A)	32/32	33/33	40/37	41/39	42/40
		low	dB(A)	26/26	27/27	35/32	37/34	37/34
	Sound power (Horizontally located scroll type) (6)		dB(A)	54/54	55/55	60/58	61/60	62/62
FAN	Air flow rate	high	m ³ /min	7.1/8.4	7.4/8.4	12.3/14.9	13.0/16.5	13.7/17.3
		medium	m ³ /min	5.9/7.0	6.0/7.1	10.7/12.8	11.5/13.7	11.8/14.1
		low	m ³ /min	4.6/5.7	4.7/5.9	9.1/10.5	9.9/11.1	9.9/11.1
	Speed	steps						
		high	rpm	1,260/1,300	1,300/1,300	1,320/1,280	1,380/1,380	1,450/1,450
		medium	rpm	1,075/1,125	1,100/1,130	1,170/1,120	1,240/1,190	1,270/1,220
		low	rpm	890/950	900/970	1,020/960	1,100/1,000	1,100/1,000
	Type							
HEAT EXCHANGER	Qty x model			1 x 18F-22	1 x 18F-22	1 x D54A-31 (DC-Motor)	1 x D54A-31 (DC-Motor)	1 x D54A-31 (DC-Motor)
	Qty x motor output		W	1 x 18	1 x 18	1 x 54	1 x 54	1 x 54
	Rows x stages x fin pitch		mm	2 x 12 x 1.4	2 x 12 x 1.4	2 x 14 x 1.2	2 x 14 x 1.2	2 x 14 x 1.2
AIR FILTER								
AIR DIRECTION CONTROL								
TEMPERATURE CONTROL								
PIPING CONNECTIONS	liquid	mm		φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5
	gas	mm		φ 9.5	φ 12.7	φ 12.7	φ 15.9	φ 15.9
	drain	mm		φ 18	φ 18	φ 18	φ 18	φ 18
INSULATION MATERIAL	Heat insulation tape							

For outdoor units	Pair application		See chapter RX(D)-J
	Multi model application		See chapter MX-H

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3D029183/4/5



2 Specifications

2

ELECTRICAL SPECIFICATIONS							
For indoor units only:				FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
CURRENT	Nominal running current	cooling	A	0.18	0.18	0.5	0.6
	Maximum running current	cooling	A	See chapter RK-J: Electrical data			

For combination indoor units + outdoor units:				FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
				RK25JV1NB	RK35JV1NB	-	-
CURRENT	Nominal running current	cooling	A	4.5	6.3	For capacities and power input in multi model application, see chapter MK-H	
	Maximum running current	cooling	A	See chapter RK-J: Electrical data			
	Starting current	cooling	A	See chapter RK-J: Electrical data			

For indoor units only:				FTK25JAV1NB	FTK35JAV1NB	FTK50HV1NB	FTK60HV1NB
POWER SUPPLY				V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~
	Frequency	Hz		50	50	50	50
	Voltage	V		230	230	230	230

ELECTRICAL SPECIFICATIONS								
For indoor units only:				FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
CURRENT	Nominal running current	cooling	A	0.18	0.18	0.18	0.2	0.22
		heating	A	0.18	0.18	0.17	0.2	0.22
	Maximum running current	cooling	A	See chapter RX(D)-J: Electrical data				
		heating	A					

For combination indoor units + outdoor units:				FTX25JAV1NB RX25JV1NB	FTX35JAV1NB RX35JV1NB	FTXD50JV1B RXD50JV1B	FTXD60JV1B RXD60JV1B	FTXD71JV1B RXD71JV1B
CURRENT	Nominal running current	cooling	A	4.8	6.4	7.6	9.7	11.5
		heating	A	5.3	6.2	8.4	9.3	12
	Maximum running current	cooling	A	See chapter RX(D)-J: Electrical data		See chapter RX(D)-J: Electrical data		
		heating	A					
	Starting current	cooling	A	5.3	6.4			
		heating	A	5.3	6.4			

For indoor units only:				FTX25JAV1NB	FTX35JAV1NB	FTXD50JV1B	FTXD60JV1B	FTXD71JV1B
POWER SUPPLY				V1	V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~	1~
	Frequency	Hz		50	50	50	50	50
	Voltage	V		230	230	230	230	230

NOTES

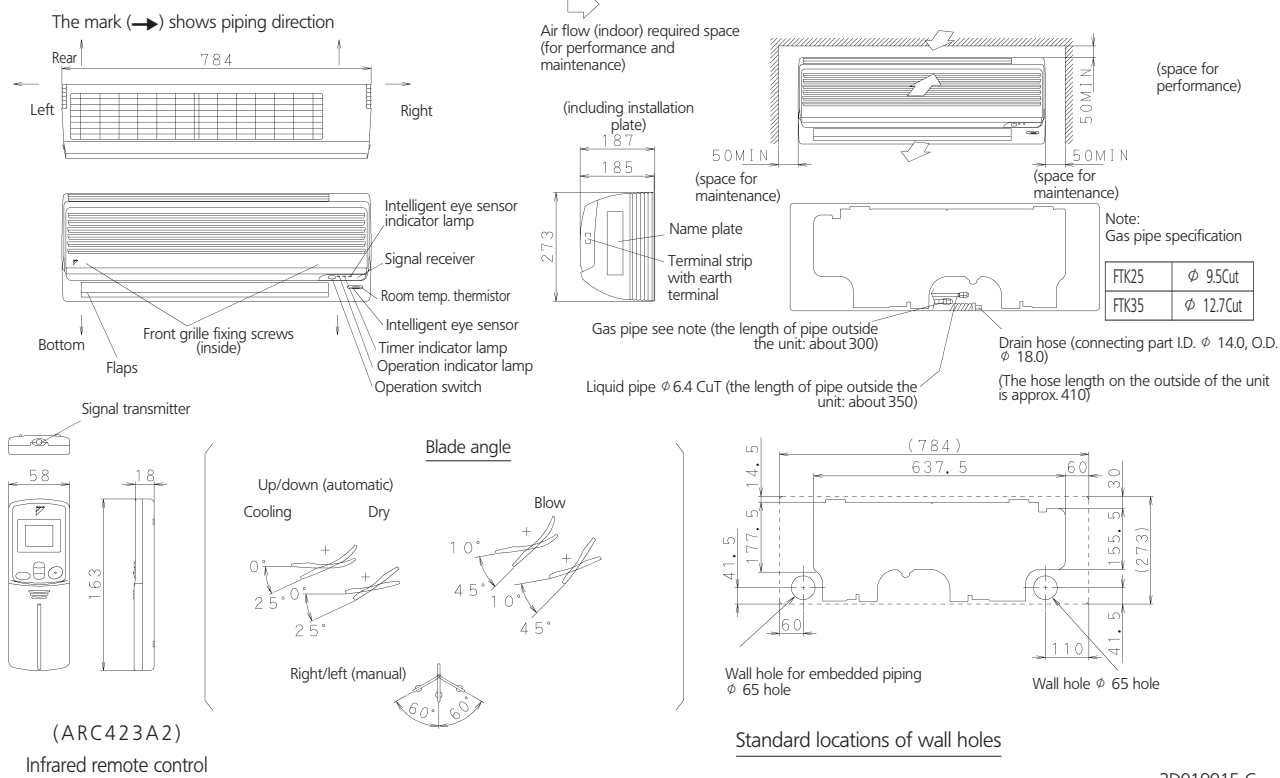
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m (horizontal) * level difference: 0m.
- Capacities are net, including a deduction for cooling for indoor fan motor heat.
- Units should be selected on nominal capacity. Maximum capacity is limited to peak periods.
- The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 6 of this chapter.
- The sound power level is an absolute value indicating the "power" which a sound source generates.

3 Dimensional drawings



FTK25-35JA

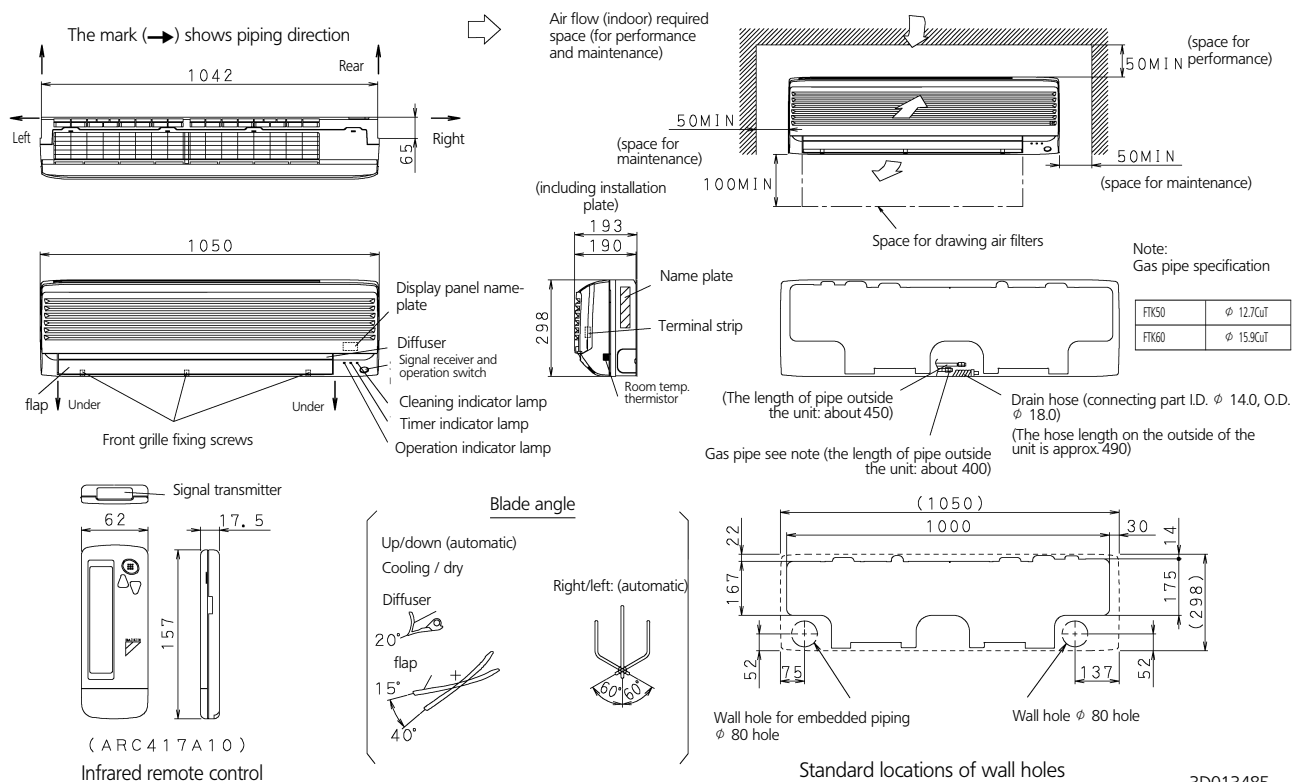
unit (mm)



3D019915-C

FTK50-60H

unit (mm)



3D013485

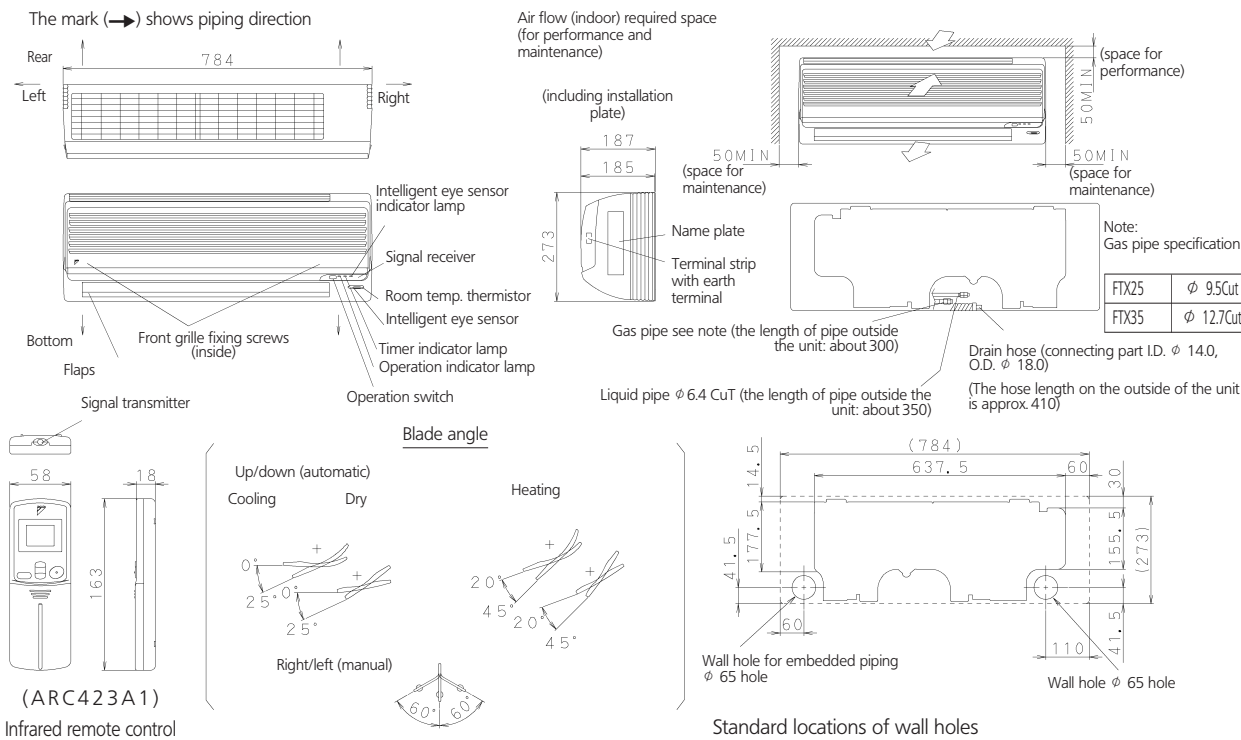
3 Dimensional drawings



3

FTX25-35JA

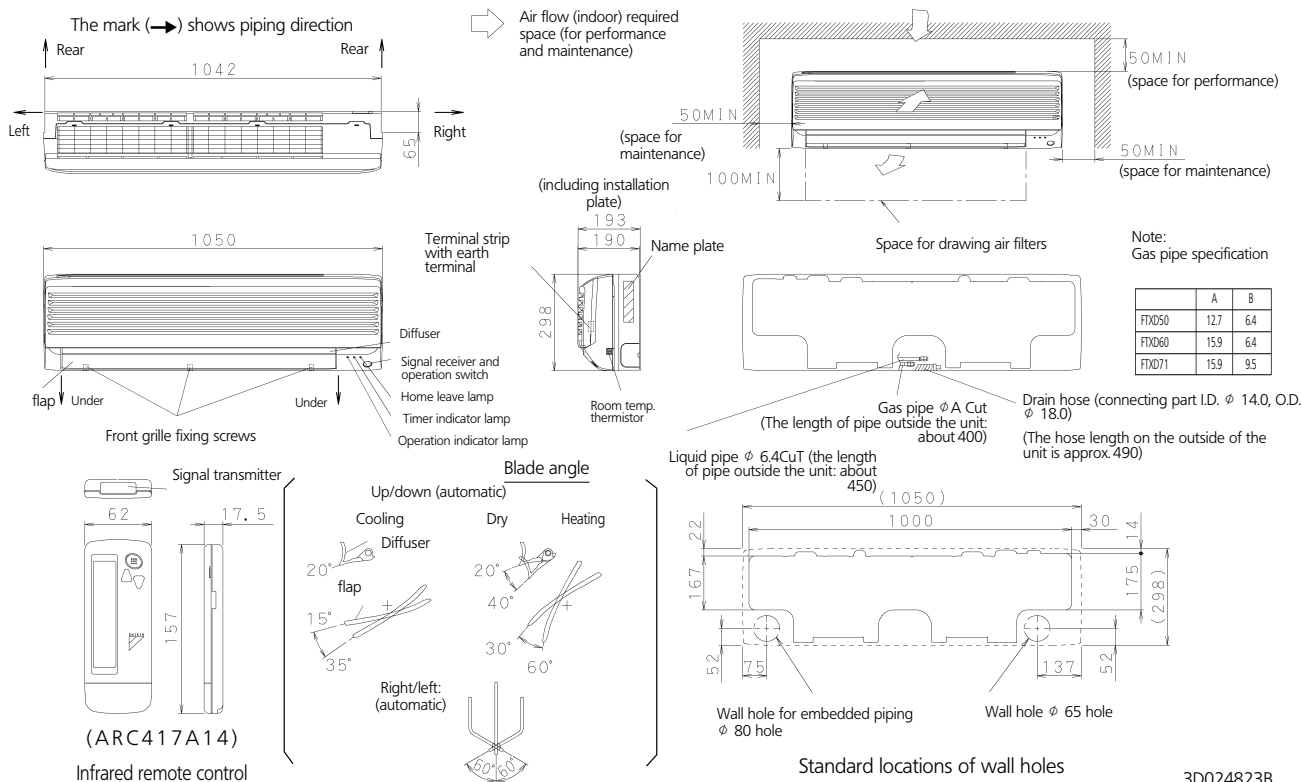
unit (mm)



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FTXD50~71J

unit (mm)

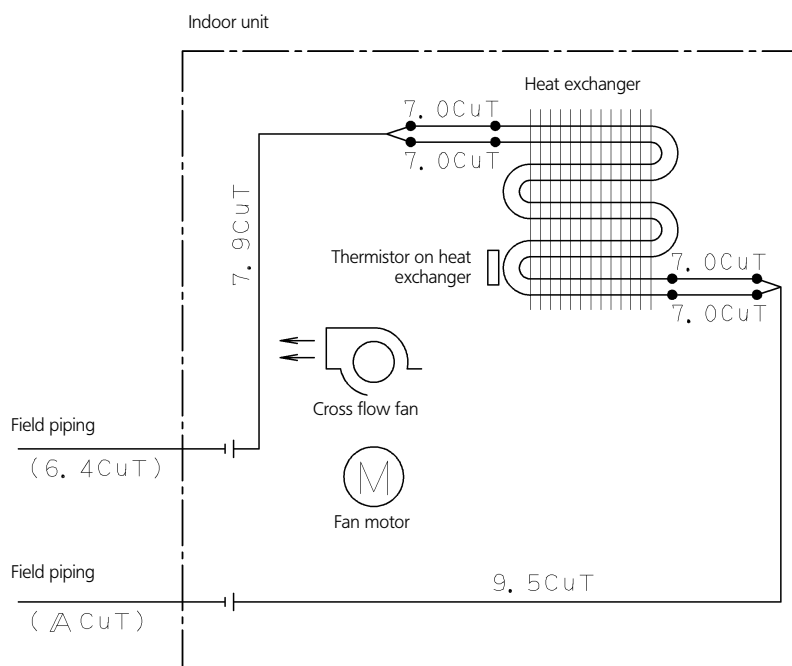


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4 Piping diagrams



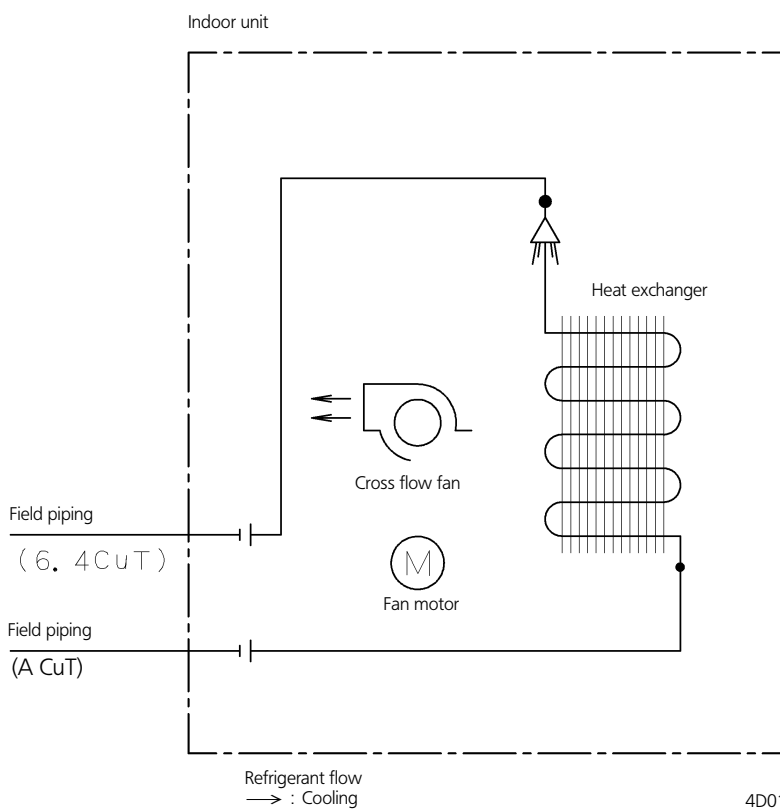
FTK25-35JA FTX25-35JA



	A
FTK25- FTX25-	9.5
FTK35- FTX35-	12.7

4D019960D

FTK50-60H



Note:
1. Gas pipe specification

	A
FTK50	12.7
FTK60	15.9

4D013572

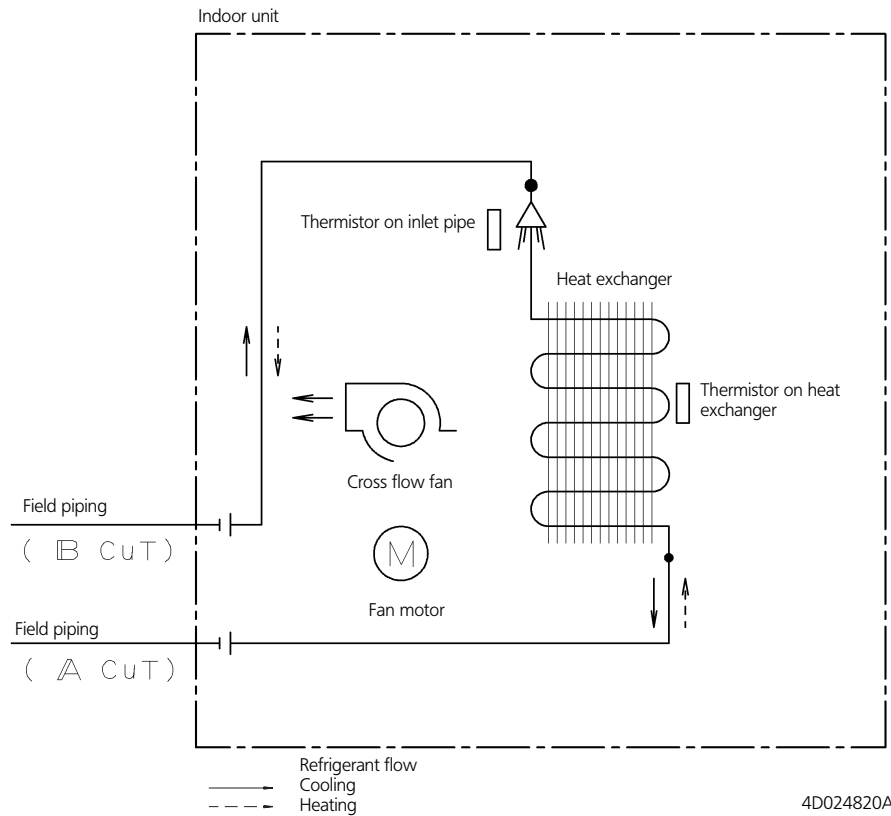
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Piping diagrams



4

FTXD50~71J



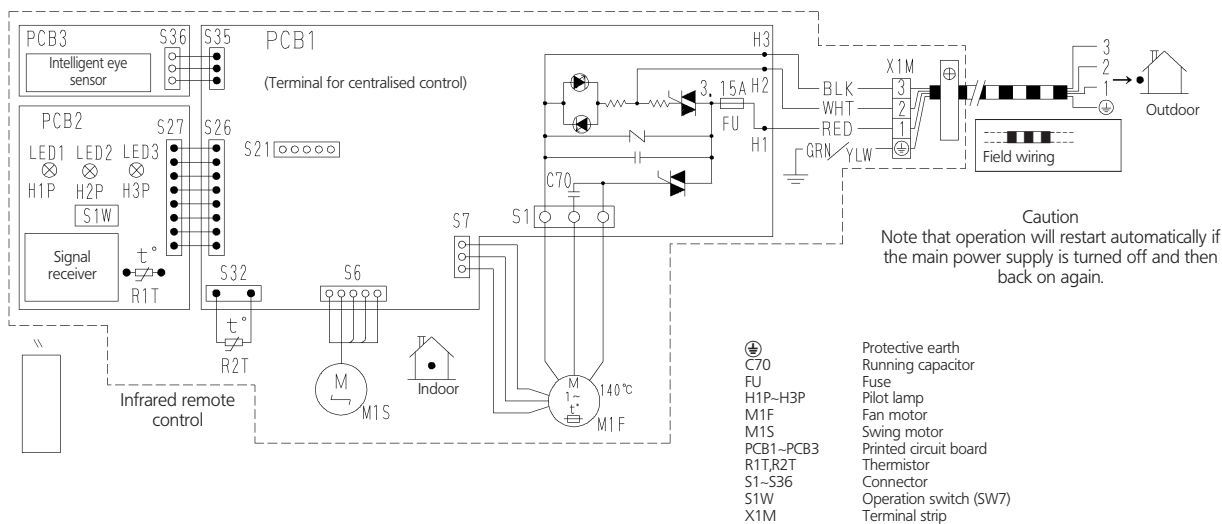
Note:
1. Gas pipe specification

	A	B
FTXD50	12.7	6.4
FTXD60	15.9	6.4
FTXD71	15.9	9.5

5 Wiring diagrams

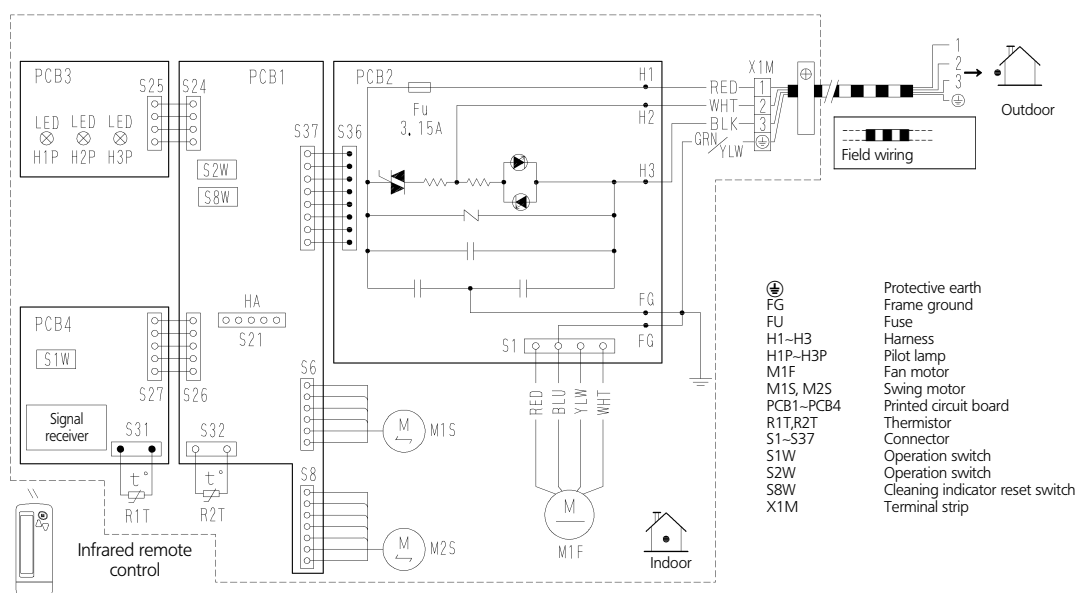


FTK25-35JA



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FTK50-60H



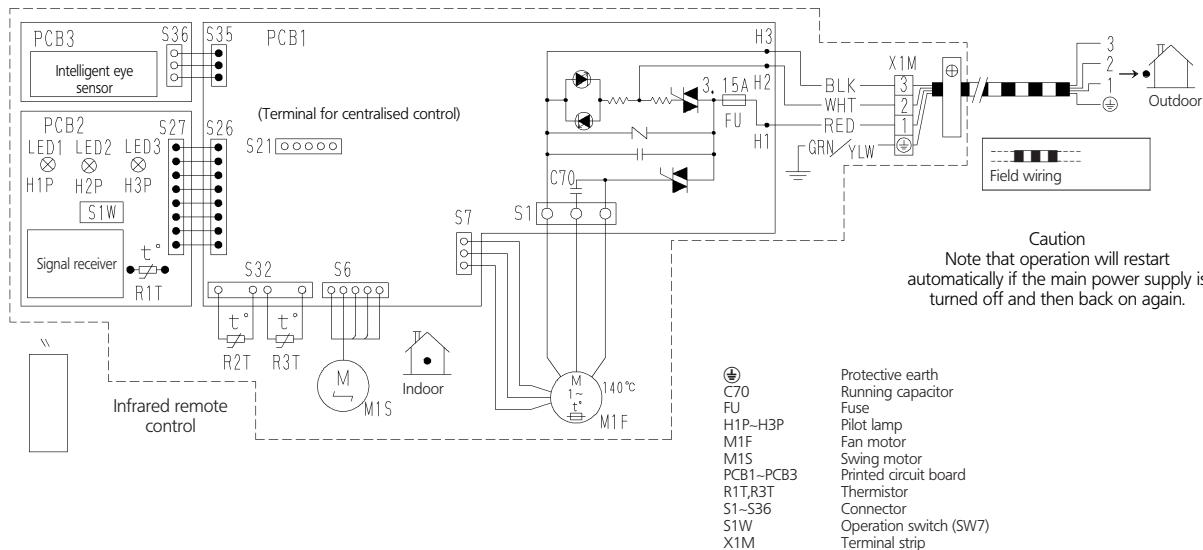
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5 Wiring diagrams



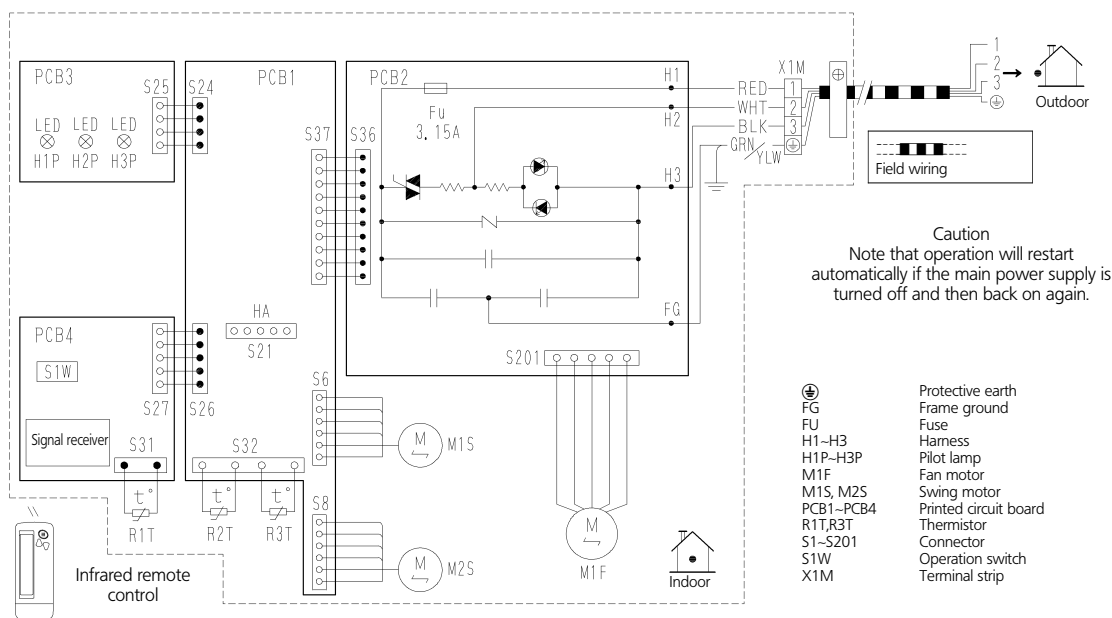
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FTX25-35JA



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FTXD50-71J



3D025027



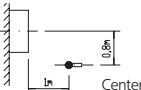
6 Sound level

6-1 Sound level data

Cooling only

Model	Sound pressure level		Measuring location	Sound power level (H)
	230V			
	50Hz			
	H	L		
FTK25JAV1NB	38	26	<div><div>Location of microphone</div><div><div>Indoor unit</div><div><div><div></div><div></div></div><div><div>0.8m</div></div><div><div>1m</div></div><div><div>Center</div></div></div></div></div>	54
FTK35JAV1NB	39	27		55
FTK50HV1NB	44	35		60
FTK60HV1NB	46	38		62

Heating only

Model	Sound pressure level		Measuring location	Sound power level (H) (cooling/heating)
	230V			
	50Hz			
	H (cooling/heating)	L (cooling/heating)		
FTX25JAV1NB	38/38	26/26	<div>Location of microphone</div> <div>Indoor unit</div>  <div>Center</div>	54/54
FTX35JAV1NB	39/39	27/27		55/55
FTXD50JV1B	44/42	35/32		60/58
FTXD60JV1B	45/44	37/34		61/60
FTXD71JV1B	46/46	37/34		62/62

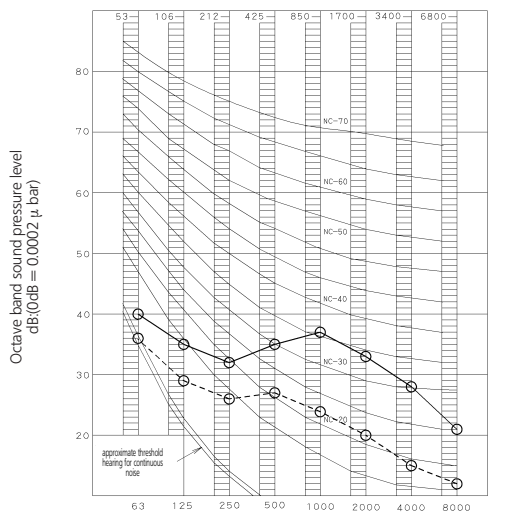
6 Sound level

6-2 Sound pressure spectrum



Cooling only

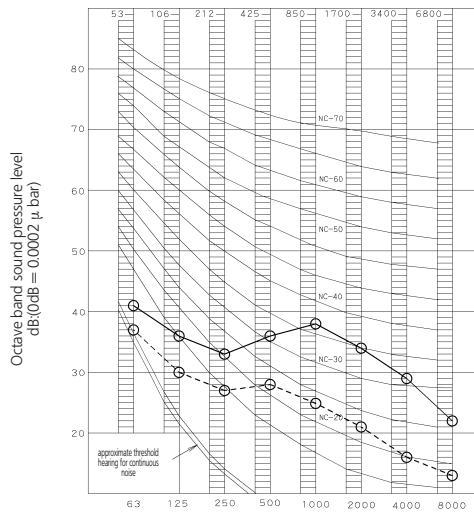
FTK25JAV1NB



4D025038A

Octave band center frequency (Hz)

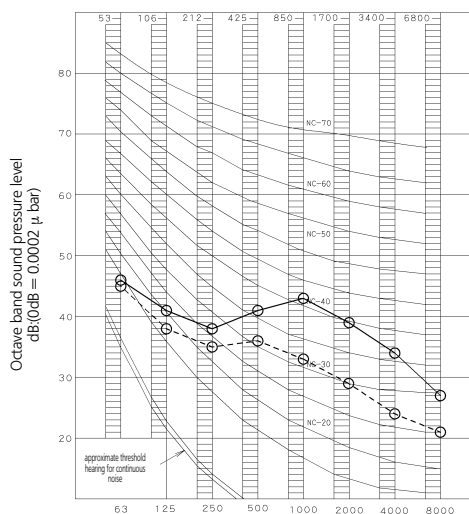
FTK35JAV1NB



4D025039A

Octave band center frequency (Hz)

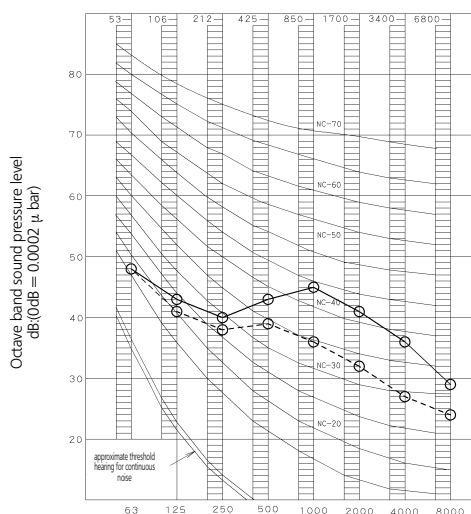
FTK50HV1NB



4D013510

Octave band center frequency (Hz)

FTK60HV1NB



4D013512

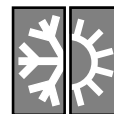
Octave band center frequency (Hz)

Legend

- 50Hz 230V(H)
- - ○ 50Hz 230V(L)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.

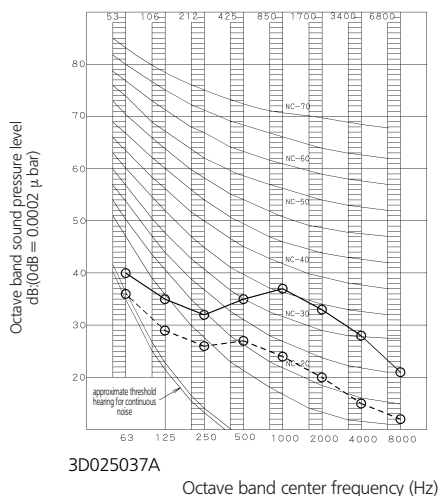


6 Sound level

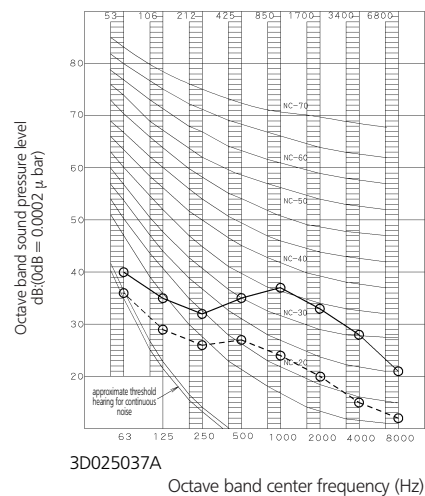
6-2 Sound pressure spectrum

6
6-2

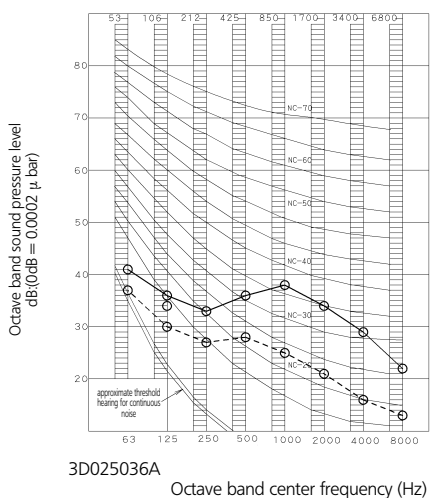
FTX25JAV1NB (Cooling)



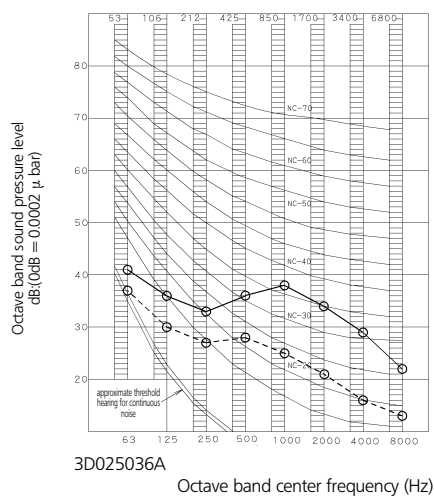
FTX25JAV1NB (Heating)



FTX35JAV1NB (Cooling)



FTX35JAV1NB (Heating)

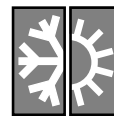


Legend

- 50Hz 230V(H)
- 50Hz 230V(L)

Notes

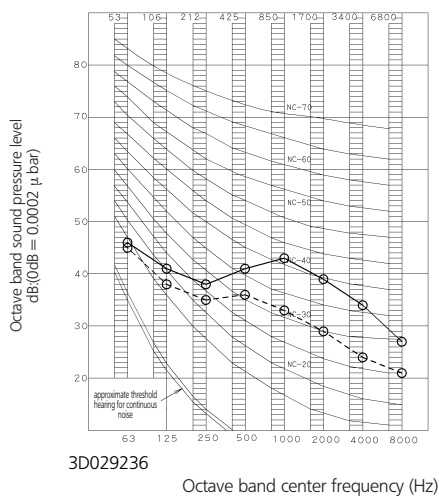
1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.



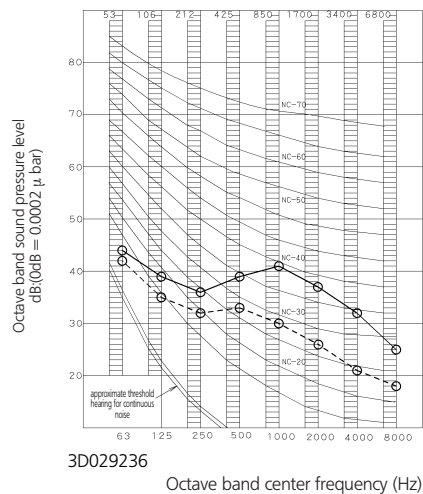
6 Sound level

6-2 Sound pressure spectrum

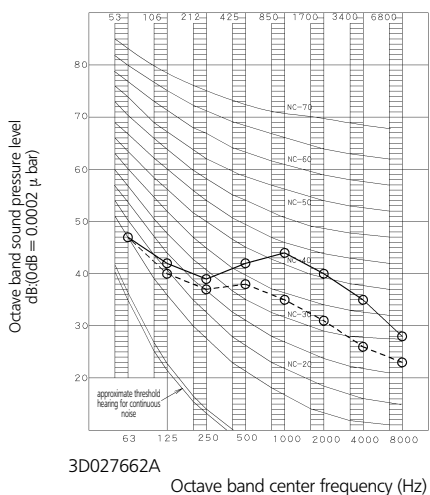
FTXD50JV1B (Cooling)



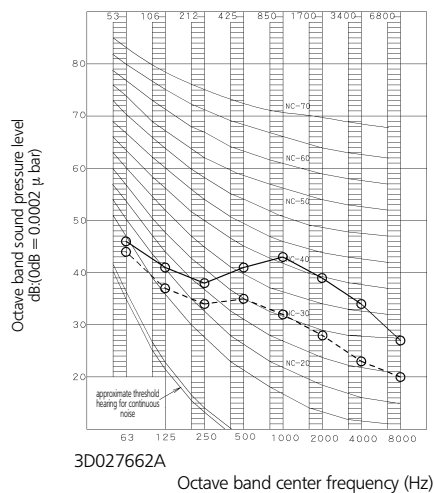
FTXD50JV1B (Heating)



FTXD60JV1B (Cooling)



FTXD60JV1B (Heating)



Legend

- 50Hz 230V(H)
- - -○ 50Hz 230V(L)

Notes

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.

6
6-2



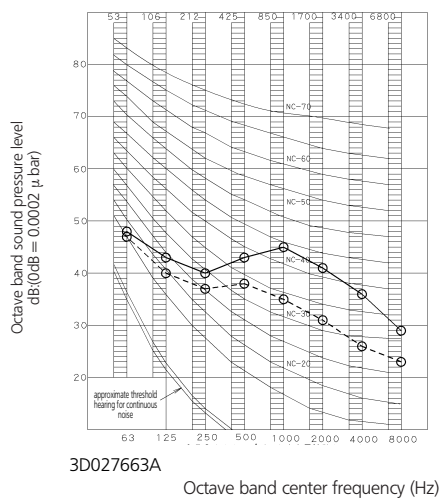
6 Sound level

6-2 Sound pressure spectrum

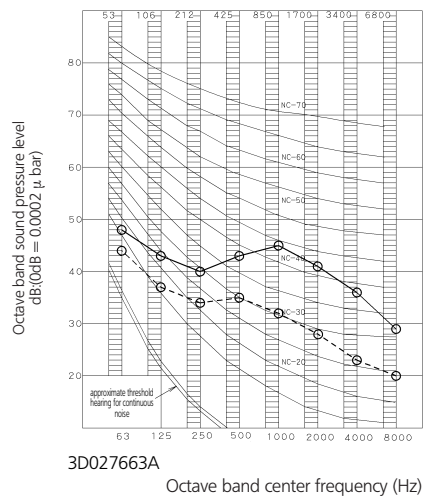
6

6-2

FTXD71JV1B (Cooling)



FTXD71JV1B (Heating)

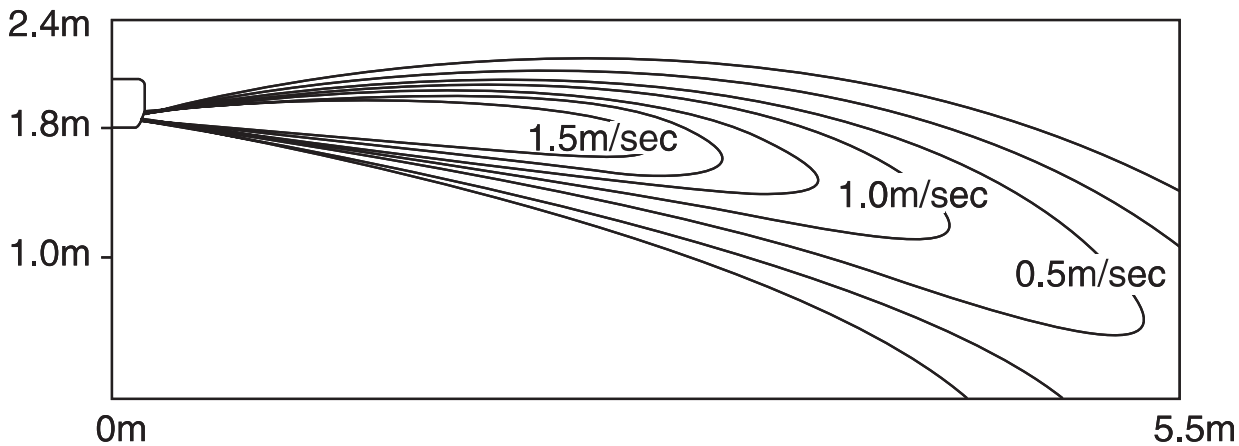




7 Air flow patterns

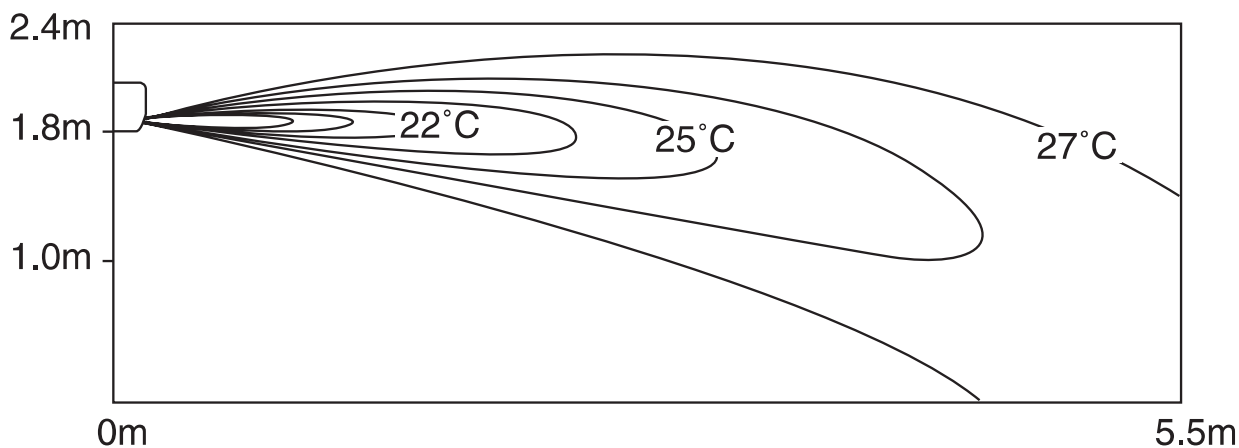
FTX35JA (Cooling Discharge Angle: 0°)

Cooling - air velocity distribution



FTX35JA (Heating Discharge Angle: 0°)

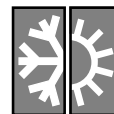
Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

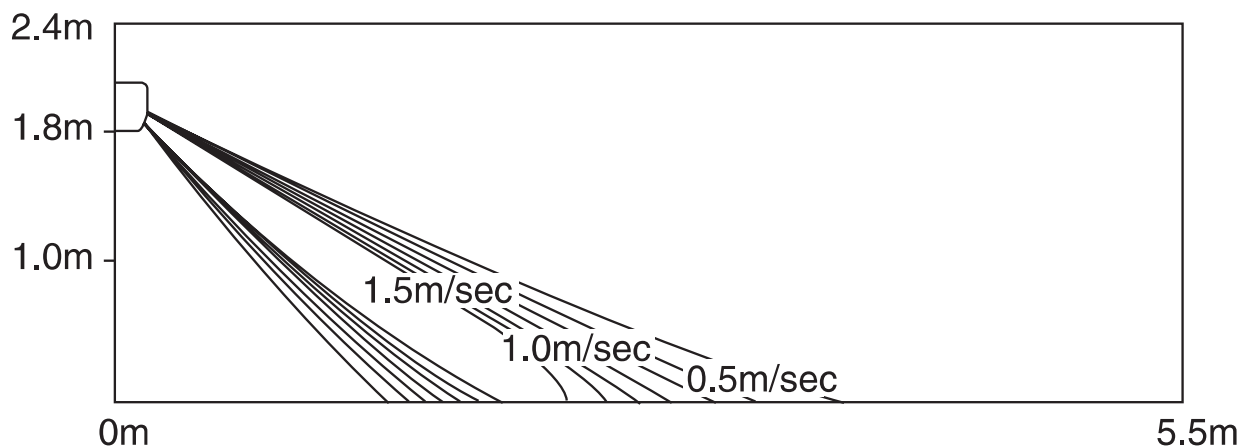
Q0150



7 Air flow patterns

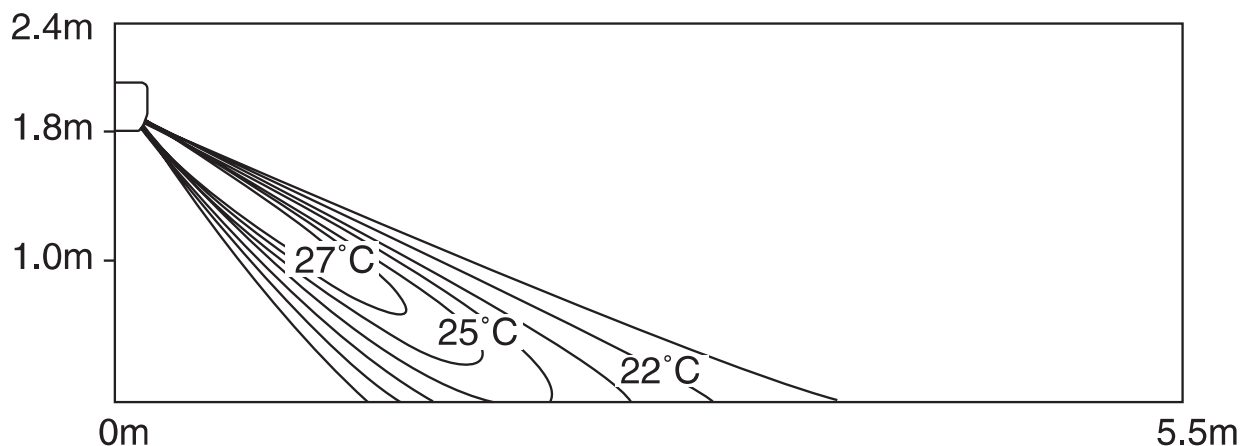
FTX35JA (Cooling Discharge Angle: 45°)

Cooling - air velocity distribution



FTX35JA (Heating Discharge Angle: 45°)

Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

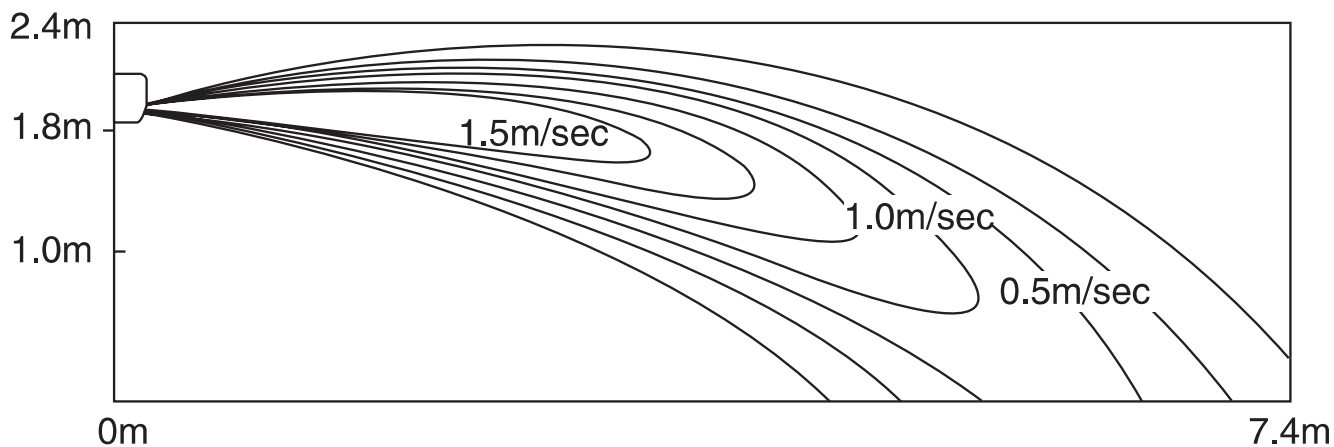
Q0151



7 Air flow patterns

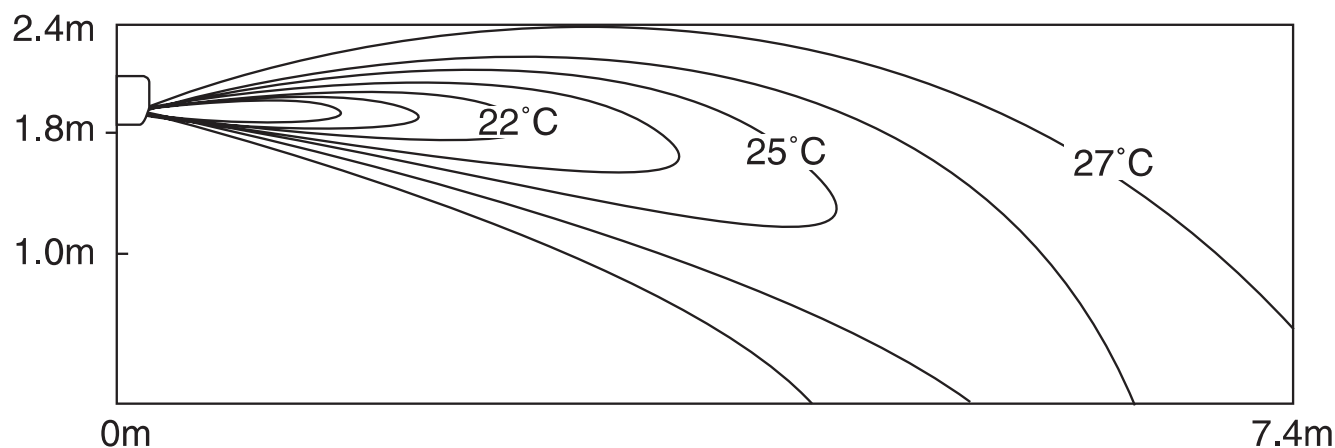
FTXD60J (Cooling Discharge Angle: 15°)

Cooling - air velocity distribution



FTXD60J (Heating Discharge Angle: 15°)

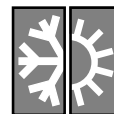
Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

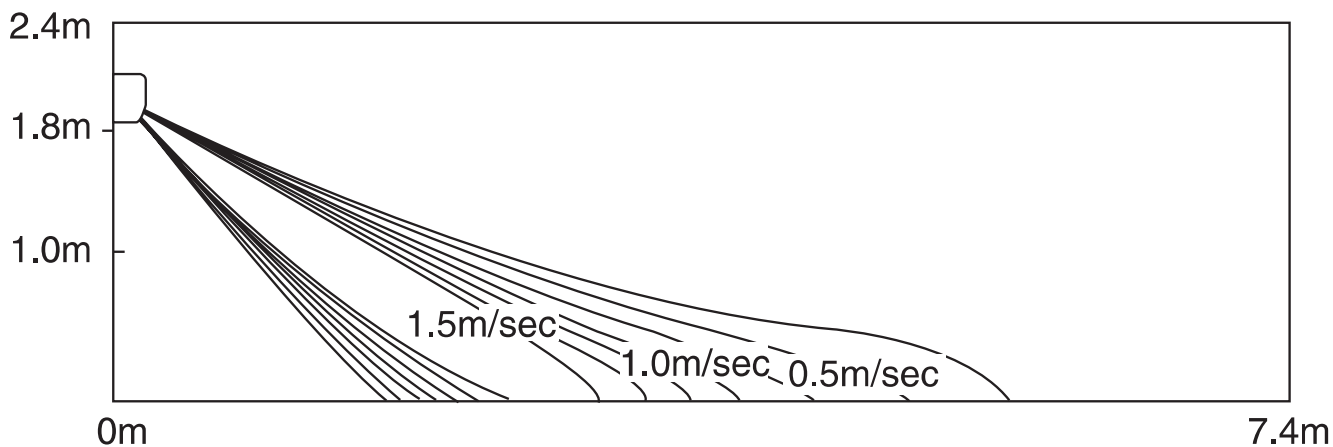
Q0152



7 Air flow patterns

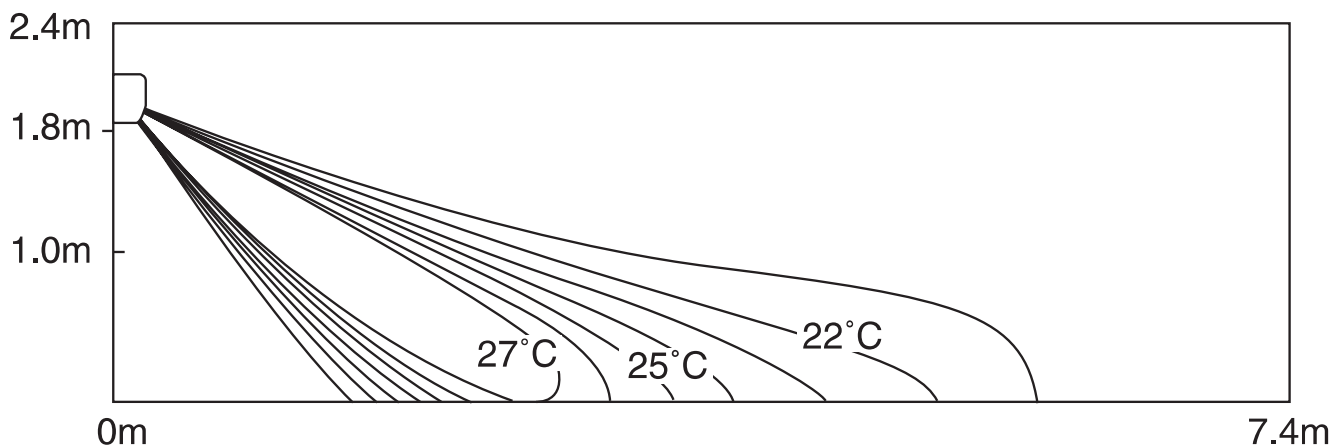
FTXD60J (Cooling Discharge Angle: 40°)

Cooling - air velocity distribution



FTXD60J (Heating Discharge Angle: 40°)

Cooling - air temperature distribution



NOTES

To make the air current analysis graphical, the results calculated in the axial flow characteristic equation are used. Keep in mind that the actual results depend on the insulating performance of a house and the layout of furniture.

Q0153



8 Accessories

8-1 Standard accessories

Ⓐ Mounting plate	1	Ⓔ Remote control holder ※1	1	Ⓜ Insulation tape (25/35 class only)	1
Ⓑ Mounting plate fixing screw M4 x 25L	25/35 class	Ⓕ Fixing screw for remote control holder M3 x 20L	2	Ⓚ Operation manual	1
	50/60 class				
Ⓒ Air purification filter	2	Ⓖ AAA dry-cell batteries	2	Ⓛ Installation manual	1
Ⓓ Remote control	1	Ⓗ Indoor unit fixing screw M4x12	2	Ⓢ Drain socket (heat pump models only)	1

※1 Remote control holder is available as standard accessory from serial no.
9900111 (FTK50HV1NB)
9900101 (FTK60HV1NB)

8

8-1

8-2 Optional accessories

FTK25-35JAV1NB
FTX25-35JAV1NB
FTK50-60HV1NB

	Option name	FTK/FTX25-35JA	FTK50-60H
1	Centralised control board-up to 5 rooms ※1	KRC72	
2	Wiring adaptor for time clock/remote control ※2 (normal open pulse contact/normal open contact)	KRP413A1S	
3	Air purification filter with frame	KAF918A41	
4	Air purification filter without frame	KAF918A42	
5	Anti-theft protection for remote control	KKF917A4	KKF910A4
6	Central remote control	DCS302B51	—
7	Unified ON/OFF control	DCS301B51	—
8	Schedule timer	DST301B51	—
9	Interface adapter for room air conditioners	KRP928A2S	—

3D020515B
3D013670

FTXD50-60-71J

	Option name	Kit name
1	Centralised control board-up to 5 rooms ※1	KRC72
2	Wiring adaptor for time clock/remote control ※2 (normal open pulse contact/normal open contact)	KRP413A1S
3	Central remote control	DCS302B51
4	Unified ON/OFF control	DCS301B51
5	Schedule timer	DST301B51
6	Interface adapter for room air conditioners	KRP928A2S
7	Air purification filter with frame	KAF918A41
8	Air purification filter without frame	KAF918A42
9	Anti-theft protection for remote control	KKF910A4

※1 Wiring adapter is also required for each indoor unit.

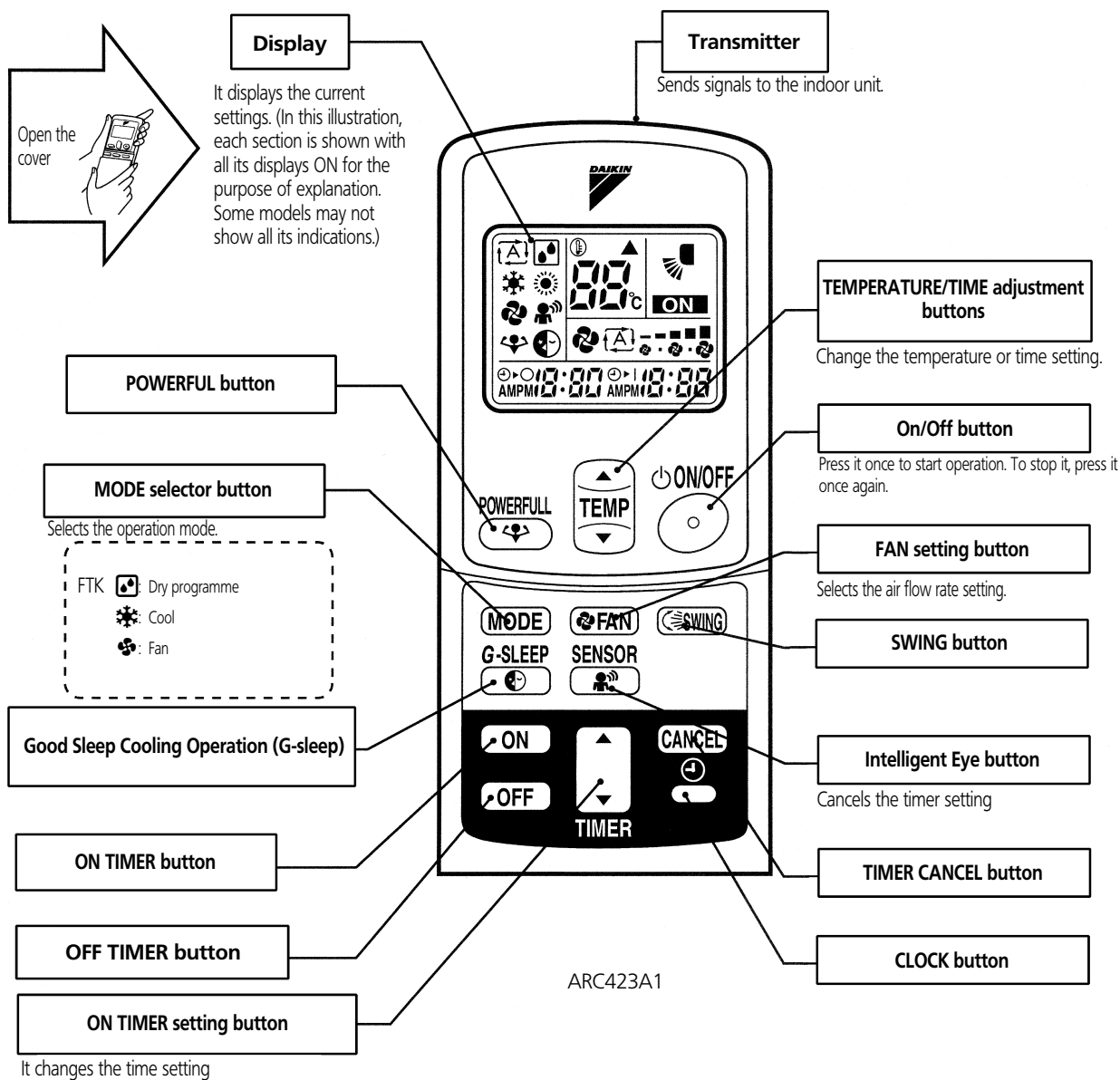
※2 Wiring adapter supplied by Daikin. Time clock and other devices: field supply.



9 Control systems

9-1 Infrared remote control

FTK25-35JAV1NB





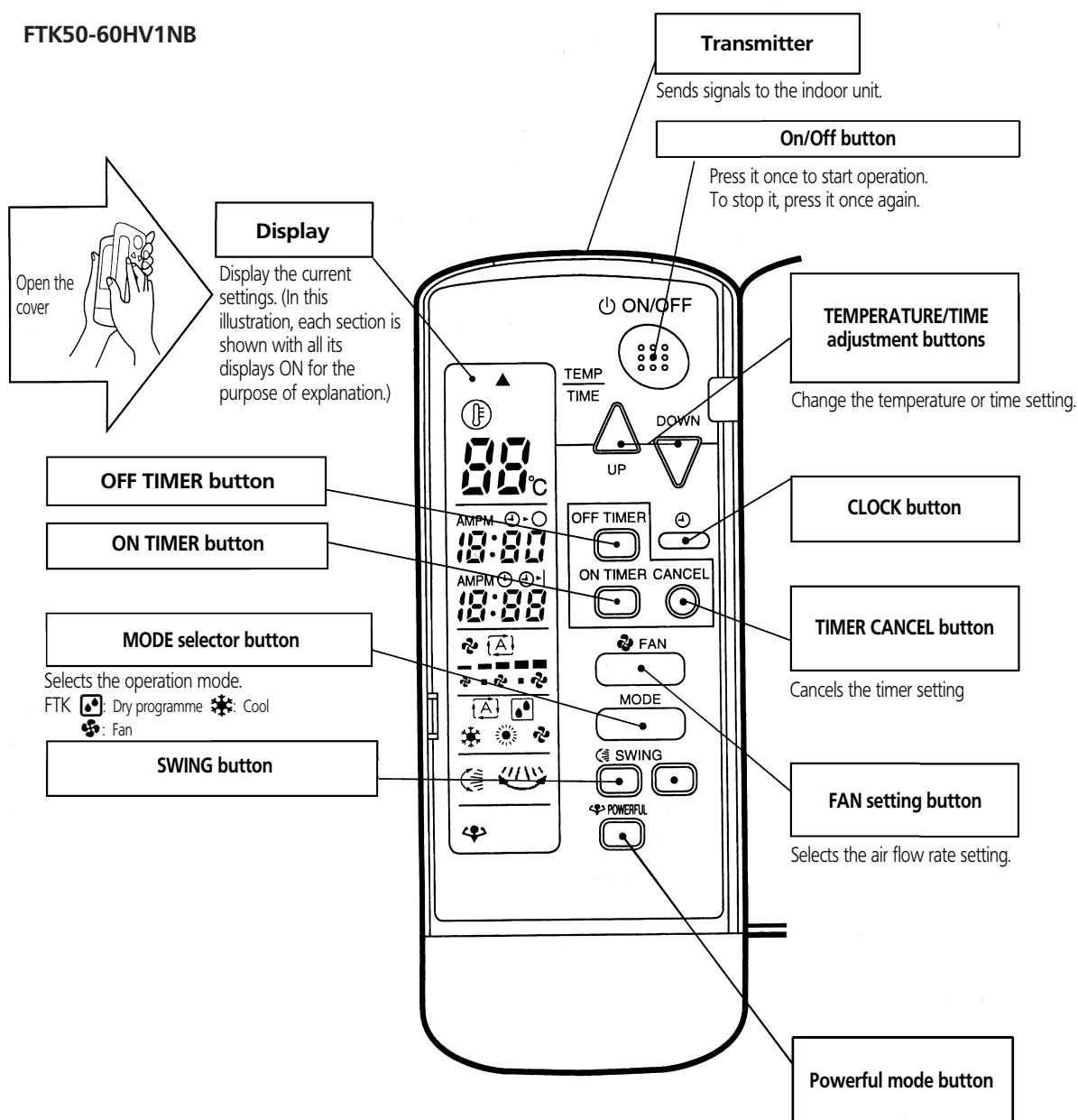
9 Control systems

9-1 Infrared remote control

9

9-1

FTK50-60HV1NB

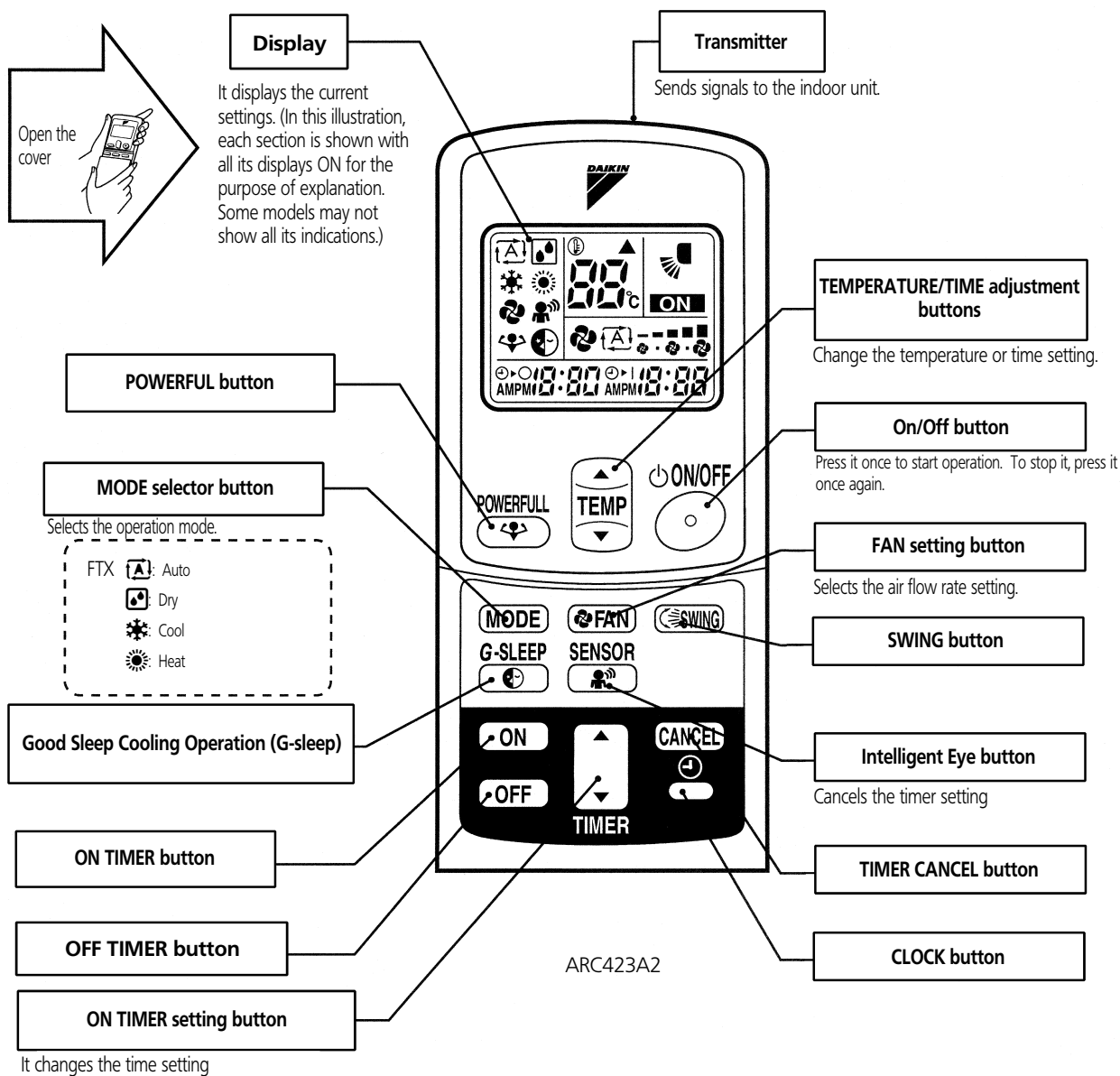


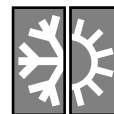


9 Control systems

9-1 Infrared remote control

FTX25-35JAV1NB

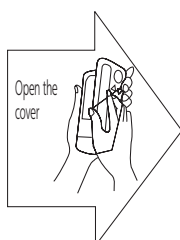




9 Control systems

9-1 Infrared remote control

FTXD50,60,71JV1B



Display

It displays the current settings. (In this illustration, each section is shown with all its displays ON for the purpose of explanation.)

OFF TIMER button

ON TIMER button

MODE selector button

POWERFUL button

HOME LEAVE button

Transmitter

It sends signals to the indoor unit.

On/Off button

Press it once to start operation. To stop it, press it once again.

TEMPERATURE/TIME adjustment buttons

It change the temperature or time setting.

CLOCK button

TIMER CANCEL button

It cancels the timer setting.

FAN setting button

It selects the air flow rate setting.

SWING button

OUTDOOR UNIT SILENT button

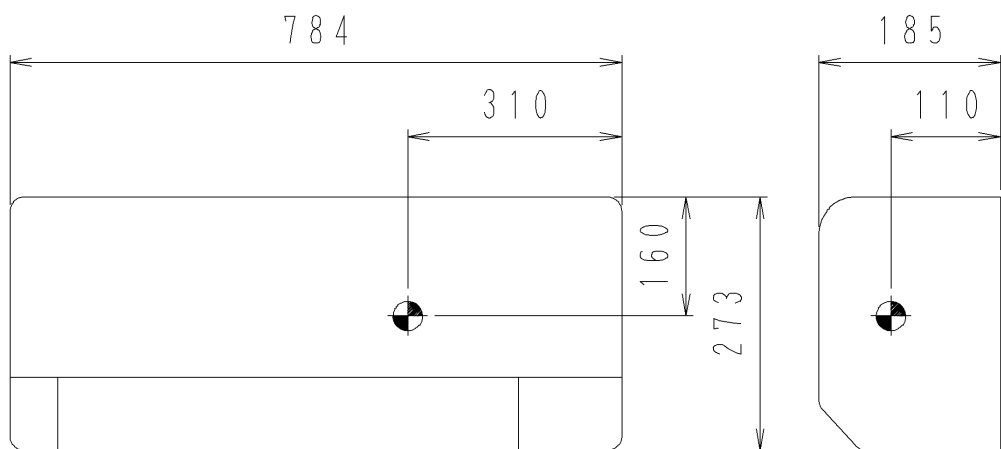
<ARC417 A14>



10 Centre of gravity

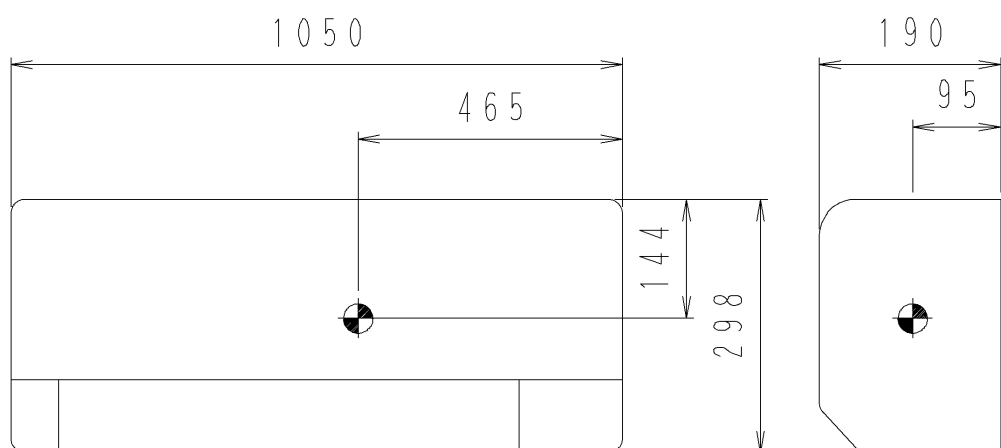
10

FTK25-35JAV1NB
FTX25-35JAV1NB



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FTXD50-60-71JV1B



4D027652



11 Installation

Indoor/outdoor unit installation drawings

11

